





## 1983 AGU SPRING MEETING

May 30-June 3

The 1983 Spring Meeting of the American Geophysical Union will be held in Baltimore from Monday, May 30, to Friday, June 3, at the Baltimore Convention Center. The convention center is linked by an elevated pedestrian walkway to Harbor Place, a development of colorful and unique boutiques and restaurants overlooking Baltimore harbor.

Baltimore has experienced a dramatic rebirth in the last decade. The sparkling Inner Harbor has come to life with the opening of the twin crystalline pavilions of Harborplace, the unusual 425 foot high World Trade Center, the tallest pentagonal structure in the world, and the National Aquarium with its 932,000 gallon tank capacity. In addition, the Inner Harbor of Baltimore is a myriad facility of aquatic recreation and history.

The exotic and elaborate variety that encompasses 'Charm City' is evident in every phase of life: from its ethnic and reconstructed cobblestone and brick town-house neighborhoods, to its vast array of dining establishments, Baltimore is an exceptionally delightful experience worthavoring.

Shop Baltimore's world famous markets which date back to the late 1700s. Tour the city's cultural and historic attractions, the restored mansions, churches, parks, Fort McHenry, the U.S. Frigate Constellation and the Maryland Science Center. You will be pleasantly surprised at all Baltimore has to offer.

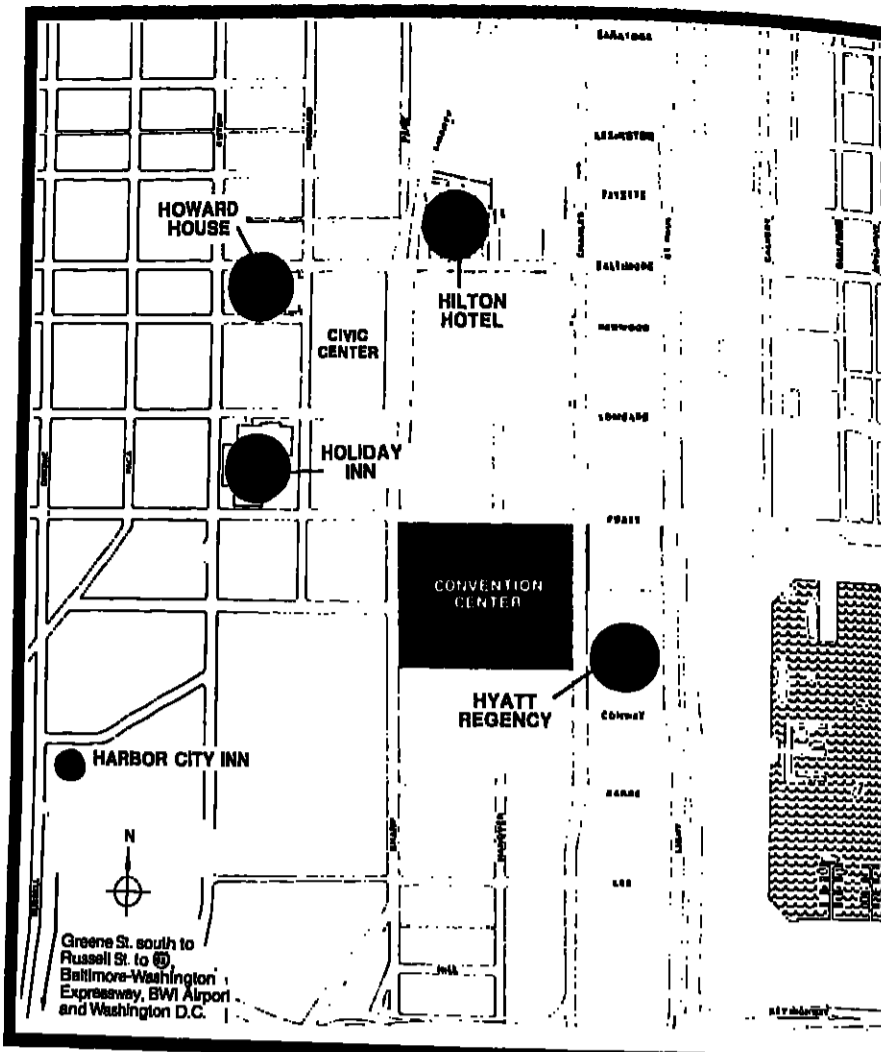
**Hotel Accommodations.** Blocks of rooms are being held at the Hilton, the Hyatt Regency, the Holiday Inn, the Howard House, and the Harbor City Inn for those attending. Read the housing application and mail the completed application form to the housing bureau early to ensure reservations at your preferred hotel.

**Transportation.** For the visitor arriving at Baltimore-Washington International Airport (BWI), it is only an 8-mile (13-km) ride to downtown Baltimore. Be sure to read the special announcement about discounted airfare, which also applies to flights to and from Washington airports.

**Registration.** Everyone who attends the meeting must register. Preregistration (received by May 11) saves you time and money, and the fee will be refunded if AGU receives written notice of inability to attend by May 26. Registration for 1 day only is available at one half of the applicable preregistration rates, either in advance or at the meeting. Registration rates are as follows:

	Pre-registration	After 5/11
Member	\$65	\$80
Student	\$32	\$47
Nonmember	\$85	\$100
Student nonmember	\$39	\$54
Retired senior member	\$32	\$49

Members of the American Meteorological Society, the American Society of Photogrammetry, Union Geofísica Mexicana, the Canadian Geophysical Union, the European Geophysical Union, and the American Congress on



## American Geophysical Union SPRING 1983 MEETING

May 30-June 3, 1983  
Baltimore, Maryland

Housing Coordinator  
AGU Spring Meeting  
Baltimore Housing Bureau  
1 East Pratt Street  
Baltimore, Maryland 21202

### HOUSING APPLICATION FORM

#### READ CAREFULLY:

Please print or type (pica spaced) all information abbreviating as necessary. Confirmation will be sent by the hotel to the individual named in Part I. If more than one room is required, this form may be photocopied.

#### PART I

REQUESTOR  
LAST NAME FIRST  
NAME OF COMPANY OR FIRM  
STREET ADDRESS OR P.O. BOX NUMBER  
CITY STATE ZIP U.S.A.  
COUNTRY AREA CODE PHONE NUMBER

#### PART II

**INSTRUCTIONS:** Select THREE Hotel/Motels of your choice from the list of participating facilities, then enter the appropriate code letters in the boxes below.

FIRST CHOICE HOTEL CODE	SECOND CHOICE HOTEL CODE	THIRD CHOICE HOTEL CODE
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**NOTE:** Rooms are assigned in "First Come First Serve" order and if none of your choices are available, another facility will be assigned based on a referral system arranged by your convention organizer. A cut-off date is in effect and your application may not be processed if received after 14 days prior to your arrival date.

\* AGU housing registration deadline is April 25.

#### PART III

**INSTRUCTIONS:** 1. Select type room desired with arrival and departure dates.  
2. PRINT or TYPE names of ALL persons occupying room.  
3. If more than two people share a room, check twin and the hotel will assign two double beds.

**CHECK ONE**

☐ SINGLE (Room with one bed one person)  
☐ DOUBLE (Room with one bed two persons)  
☐ TWIN (Room with two beds two persons)  
☐ P + 1 (Parlor plus one-bedroom suite)  
☐ P + 2 (Parlor plus two-bedroom suite)  
☐ EXTRA PERSON

Arrival Date MO DAY  
Departure Date MO DAY  
Arrival Time AM PM

Guest Names (Print Last Name First)  
1.  
2.  
3.

**IMPORTANT NOTE:** Hotel MAY require a deposit or some other form of guaranteed arrival. If so, instructions will be on your confirmation form.

Surveying and Mapping may register for the meeting at the AGU member rates.

The difference between member (or student member) registration and nonmember registration may be applied to AGU dues if a completed membership application is received at AGU by July 25, 1983. Current AGU annual membership rates are \$20 for members and \$7 for student members.

To preregister, fill out the registration form, and return it with your payment to AGU before May 11. Your receipt will be included with your preregistration material at the meeting. Preregistrants should pick up their registration material at the preregistration desk at the Convention Center, Monday through Friday registration hours are 8 A.M. to 4 P.M. On Sunday, May 29, registration hours are 9:30-7:30 P.M. in the lobby of the Hilton Hotel. Complimentary badges for guests not attending the scientific sessions will be available at the registration desk.

**Scientific Sessions.** The preliminary program with abstracts will be published in *Eos*, May 3. All scientific sessions will be held at the convention center. See the section below headed 'Program Summary.'

**Poster Sessions.** Poster sessions will be held throughout the meeting in Exhibit Hall A. These sessions will include papers from almost all sessions of the Union. The normal hours for poster presentations are from 9:00 A.M. to 12:00 noon and from 2:00 P.M. to 5:00 P.M. However, posters for the morning session may be left for viewing until 1:00 P.M.

For poster sessions, AGU will provide each presenter with a mounting area measuring 4 x 8 feet (1.25 x 2.50 m). The board will be assigned by numbers corresponding to the presenters abstract number. Plan your exhibit to fit this space. The boards will be set up in the designated rooms before the poster session begins. Thumb tacks, push pins, tape, and scissors will be available in the meeting room.

**Social Events.** An Ice Breaker on Monday evening at the convention center is the opening social event of the meeting.

Complimentary refreshments will be served daily in Exhibit Hall A. Coffee breaks are 9:30-10:30 A.M. and beer breaks 2:45-3:45 P.M.

**Awards Ceremony and Reception.** The Awards Ceremony will be held in the Francis Scott Key Ballroom of the Hilton Hotel at 6:00 P.M. on Wednesday, June 1. All meeting participants are invited and are urged to attend. A Reception will follow the ceremony; you can meet and congratulate those being honored and share a glass of wine with them.

**President's Dinner.** The President's Dinner in honor of the medalists, awardees, and fellows will begin at 8:00 P.M. at the Hilton. It will be a more lavish and formal affair; black tie is optional. Tickets for the dinner are \$25 per person. Purchase your tickets with your preregistration.

**Exhibits.** The exhibit area in Exhibit Hall A will open 9 A.M. Tuesday and will remain

### RETURN THIS FORM WITH PAYMENT TO:

Meetings Registration  
American Geophysical Union  
2000 Florida Ave., N.W.  
Washington, D.C. 20009

PLEASE PRINT CLEARLY

NAME ON BADGE

AFFILIATION

MAILING ADDRESS

Telephone #  
HOTEL

Days you plan to attend.

☐ Monday ☐ Wednesday ☐ Friday

☐ Tuesday ☐ Thursday

Please check appropriate box.

Members of the cooperating societies may register at AGU member rates.

Member badges are blue on white.

Nonmember badges are red on white.

☐ Member AGU ☐ Nonmember

☐ Member cooperating society.

AMS-American Meteorological Society

ASP-American Society of Photogrammetry

ACSM-American Congress on Surveying and Mapping

UGM-Union Geofísica Mexicana

CGU - Canadian Geophysical Union

EGS - European Geophysical Union

#### Nonmembers

The difference between member (or student member) registration and nonmember registration may be applied to AGU dues if a completed membership application is received at AGU by July 25, 1983. Current AGU annual membership rates are: \$20 Members; \$7 Student Members.

#### Preregistrants

Your receipt will be in your preregistration packet. The registration fee will be refunded if written notice of inability to attend is received in the AGU office by May 26. The program and meeting abstracts will appear in the May 3 issue of *Eos*, which is mailed to all members of AGU in advance of the meeting.

Office Use Reference Number

### AGU 1983 SPRING MEETING MAY 30-JUNE 3, 1983 Baltimore, MD.

#### REGISTRATION FORM DEADLINE FOR RECEIPT OF PREREGISTRATION MAY 11, 1983

(rates applicable only if received by May 11, with payment)

	More than one day	One day
MEMBER	<input type="checkbox"/> \$65	<input type="checkbox"/> \$32.50
STUDENT MEMBER	<input type="checkbox"/> \$32	<input type="checkbox"/> \$16
NONMEMBER	<input type="checkbox"/> \$85	<input type="checkbox"/> \$42.50
STUDENT NONMEMBER	<input type="checkbox"/> \$39	<input type="checkbox"/> \$19.50
RETIRED SENIOR MEMBER	<input type="checkbox"/> \$32	<input type="checkbox"/> \$16
ABSTRACTS (May 3, 1983, EOS)	<input type="checkbox"/> \$5	<input type="checkbox"/> \$5
PRESIDENT'S DINNER-Wednesday	<input type="checkbox"/> \$25	<input type="checkbox"/> \$25

#### SECTION LUNCHEONS

All tickets are \$9.50 except for Seismology which is sponsored, cost is \$5

- ☐ Atmospheric Sciences-Thursday
- ☐ Geodesy-Thursday
- ☐ Geomagnetism and Paleomagnetism-Wednesday
- ☐ Hydrology-Wednesday
- ☐ Oceanography-Tuesday
- ☐ Planetary/Volcanology, Geochemistry and Petrology-Wednesday
- ☐ Seismology-Wednesday
- ☐ Tectonophysics-Thursday

☐ American Express

Charge to ☐ Visa

☐ Master Card

Card Number

Expiration Date

Signature

Other payments (Please identify) \$

Total enclosed \$

(All orders must be accompanied by payment or credit card information. Make check payable to AGU.)

Office Use

Code

Check No.

### Airfare Information Special 30% Discounted Air Fares Available When You Fly UNITED or DELTA to Baltimore.

**UNITED** Your toll-free number for flight reservations: 800-521-0810  
(Michigan residents 800-482-0243)

Your AGU Convention Number 6318

Special arrangements have been made with United Airlines to offer you a special discount off regular roundtrip coach... available only when you call the United toll-free number of United's Convention Desk: 8:30 A.M.-8:30 P.M. EST Monday through Friday.

Just call the above number, available to those within the 48 contiguous states. Ask for the Convention Desk. Tell them you are attending the AGU convention in Baltimore, or give them your AGU Convention Number: 6318.

Here are the details on your special AGU convention fare:  
• 30% lower than the normal roundtrip coach fare in effect at the time of your ticket purchase  
• No minimum stay is required  
• Travel may commence no earlier than May 23, 1983, and must be completed on or before June 10, 1983

Reservations should be made as early as possible. The final date for reservations and ticketing is May 17, 1983.

Ticket purchase may be made directly from United, who will mail your tickets directly to you. Just identify your method of payment when you call. If you wish to do so, you may purchase your ticket through an authorized travel agency. However, YOU, not your travel agent, should call United's unlisted number.

Special Note in the current competitive 'air fare war' there are 'supersever' fares and other sporadic and short-lived discounted fares from specific cities to Baltimore. These fares have restrictions and are limited. United's convention specialists will assist you in determining if your travel plans meet these specific restrictions and will assist you in making reservations at the best available rate.

Members in Hawaii: Call your local United reservations office for assistance. Identify yourself as attendees of the AGU meeting in Baltimore and ask your reservation agent to queue your record to Detroit 58.

**DELTA** Call Delta Toll Free 1-800-241-8780 Continental U.S.  
(1-800-282-8536 Georgia Only)

Delta Air Lines, in cooperation with the American Geophysical Union, is offering a special convention rate, the YE253, which affords a savings of at least 30% for attendees traveling on Delta to their meeting. Departures to Baltimore must be from your home city between May 28 and June 1, 1983. Reservations must be confirmed and tickets purchased seven (7) days prior to your departure round trip via Delta. If special fares which represent a savings greater than your convention rate, YE253, are available to Baltimore, Delta will attempt to confirm your reservations at that rate. For reservations and information call Delta... TOLL FREE... or your Travel Agent.

open through Thursday between 9 A.M. and 4 P.M.

Exhibitors confirmed to date are:

Academic Press Inc.  
AGU Book/Periodical Show  
American Geophysical Union  
Defense Mapping Agency/HTC  
D. Reidel Publishing Company  
Elsevier Science Publishing Company, Inc.  
ENDECO, Inc.  
General Electric  
Kinematics, Inc.  
National Science Foundation  
NASA/GSFC  
Phoenix Geophysics Ltd.  
Sapphire Instruments  
Schonsted Instrument Co.  
Telebyte Geotech  
Terra Technology  
USGS

**Business Meetings and Section Luncheons.** The AGU Council will meet Tuesday, May 31, at 5:30 P.M. in the Constellation Ballroom E&F, Hyatt Regency. The annual business meeting of the Union will follow the Council meeting. Members are welcome.

Hydrology Section Executive Committee will meet Thursday, June 2, at 4:30 P.M. in the Preston Room, Hilton Hotel.

The Solar-Planetary Relationships Section business meeting will be on Thursday following an afternoon technical session in Room 310. Refreshments will be served.

Section luncheons will be held in the Hyatt Regency. Rooms will be published in the registration form which luncheon you plan to attend and include payment. Cost is \$9.50 per ticket (except for the Seismology luncheon).

The Oceanography luncheon will be held on Tuesday. Bruce Robeson, University of California at Santa Barbara, will speak on the 'Status of the UNOLS Research Fleet.'

The luncheons of the Geomagnetism and Paleomagnetism, Hydrology, and Petrology/Volcanology, Geochemistry, and Petrology sections will be held on Wednesday.

The Seismology luncheon, sponsored by Kinematics, Inc., Telebyte Industries, Inc., and W. F. Sprengnether Instrument Co., Inc., will also be on Wednesday; cost is \$5.00 per ticket. Brian J. Mitchell, St. Louis University, will speak on 'The Early History of Seismology in the Central United States.'

The Atmospheric Sciences, Geodesy, and Tectonophysics luncheons will be on Thursday.

#### Program Summary

Union  
Satellites & Geosciences, Wed AM  
History of Geophysics, Wed AM  
Satellites & Geosciences, Wed PM  
Test Ban Verification, Thurs AM  
Test Ban Verification, Thurs PM

Atmospheric Sciences  
Tropospheric Chemistry, Mon PM  
El Chichón, Tues AM  
Dry Deposition, Tues AM  
Stratospheric Chemistry, Tues PM  
Ocean/Climate Interactions, Wed PM  
New Observing Systems, Thurs AM  
Climate Changes, Thurs AM  
History of Meteorology, Thurs PM

Geodesy  
Earth & Ocean Tides, Tues AM  
Results on Earth Rotation, Tues PM  
Gravity Analysis I, Wed AM  
Crustal Movements I, Thurs AM  
Crustal Movements II, Thurs PM  
Gravity Analysis II, Fri AM

Geomagnetism & Paleomagnetism  
Magnet Studies, Mon AM  
Long Wavelength Anomalies, Mon PM  
Paleomagnetism-Sediments, Tues AM  
Paleomagnetic Results, Tues PM  
Reversals & Plate Motion, Wed AM

Hydrology  
General Surface Water, Mon AM  
Infl. Urban Hydrology I, Mon PM  
Urban Runoff I, Tues AM  
Infl. Urban Hydrology II, Tues PM  
General Hydrology, Wed AM  
Urban Runoff II, Wed AM  
General Ground Water, Wed PM  
Ground Water & Fractures I, Thurs AM  
Ground Water & Fractures II, Thurs PM  
Evapotranspiration, Fri AM

Oceanography  
Absolute SST Measurements, Mon AM  
Texas/Louisiana Shelf, Mon AM

Meetings (cont. on p. 142)

J. Geophys. Res., Green, Paper 3C0475